

Denotes an input cell.

Example runs for Total N TN Standard (mg/L) = 0.3

C1 0.5 Ambient upstream nutrient concentration (mg/L)  
 V1 450000000 Receiving stream volume at seasonal 14Q10 flow (L/day)

Dilution Ratio (by volume)
<b>100</b>

C2 10 Effluent nutrient concentration (mg/L)  
 V2 45000000 Effluent volume (L/day)

**4545000000** TOTAL VOLUME (Receiving stream + effluent)(L/day)

Mixing Equation: 0.594 mg TN/L after mixing

**Table 1-1. At a Dilution Ratio of 100:1, a Hypothetical Determination of Concentration and Load (After the Mixing Zone), and Derivation of the Test Metric. Example shown here is for total nitrogen. Instream flow used for calculation is the seasonal 14Q10.**

			Projected Conc.	Projected Load		Projected Reduction	Test Metric	
Year	Stream background Conc. (mg TN/L)	Instream concentration after mixing, at current facility discharge of 10 mg TN/L (mg/L)	Instream concentration after mixing, at facility discharge upgraded to 5 mg TN/L (mg/L)	Total load after mixing, at facility discharge of 10 mg TN/L (kg/day)	Total load after mixing, at facility discharge upgraded to 5 mg TN/L (kg/day)	Load reduction from projected upgrade as a percent of total current load	Credit for Load Traded by Facility† (kg/day)	Load reduction from projected upgrade as a percent of total current load, adjusted for facility-funded trades
2012	0.500	0.59	0.54	2700	2475	8%	0	8%
2013	0.480	0.57	0.52	2610	2385	9%	0	9%
2014	0.450	0.54	0.50	2475	2250	9%	0	9%
2015	0.380	0.48	0.43	2160	1935	10%	0	10%
2016*	0.350	0.45	0.40	2025	1800	11%	0	11%
2017	0.320	0.42	0.37	1890	1665	12%	100	7%
2018	0.300	0.40	0.35	1800	1575	13%	100	7%
2019*	0.270	0.37	0.32	1665	1440	14%	100	8%
Average (5-year rolling, 2012-2016) :			0.48			10%	0	10%
Average (5 year rolling, 2015-2019) :			0.37			12%	60	9%

\* Triennial review.

† Mass credited accounting for trade ratios. For example, if the trade requires that 2 kg nitrogen must be reduced for each 1 kg credited, and an estimated 200 kg will be reduced, the community will receive credit here for 100 kg.

**Table 1-2. At a Dilution Ratio of 5:1, a Hypothetical Determination of Concentration and Load (After the Mixing Zone), and Derivation of the Test Metric. Example shown here is for total nitrogen. Instream flow used for calculation is the seasonal 14Q10.**

			Projected Conc.	Projected Load		Projected Reduction	Test Metric	
Year	Stream background Conc. (mg TN/L)	Instream concentration after mixing, at current facility discharge of 10 mg TN/L (mg/L)	Instream concentration after mixing, at facility discharge upgraded to 5 mg TN/L (mg/L)	Total load after mixing, at facility discharge of 10 mg TN/L (kg/day)	Total load after mixing, at facility discharge upgraded to 5 mg TN/L (kg/day)	Load reduction from projected upgrade as a percent of total current load	Credit for Load Traded by Facility† (kg/day)	Load reduction from projected upgrade as a percent of total current load, adjusted for facility-funded trades
2012	0.50	2.08	1.25	1125	675	40%	0	40%
2013	0.32	1.93	1.10	1044	594	43%	0	43%
2014	0.28	1.90	1.07	1026	576	44%	0	44%
2015	0.25	1.88	1.04	1013	563	44%	0	44%
2016*	0.206	1.84	1.01	993	543	45%	0	45%
2017	0.190	1.83	0.99	986	536	46%	100	36%
2018	0.106	1.76	0.92	948	498	47%	100	37%
2019*	0.104	1.75	0.92	947	497	48%	100	37%
Average (5-year rolling, 2012-2016) :			1.09			43%	0	43%
Average (5 year rolling, 2015-2019) :			0.98			46%	60	40%

\* Triennial review.

† Mass credited accounting for trade ratios. For example, if the trade requires that 2 kg nitrogen must be reduced for each 1 kg credited, and an estimated 200 kg will be reduced, the community will receive credit here for 100 kg.